3-1-9 Errors in CJ-series Units

The section provides tables of the events that can occur in the CJ-series Units.

- Analog I/O Units
- Process I/O Units
- Temperature Control Units
- ID Sensor Units
- High-speed Counter Units
- Serial Communications Units
- DeviceNet Units
- EtherNet/IP Units
- CompoNet Master Units

CJ-series Analog I/O Units

The section provides tables of the events that can occur in the following Units.

CJ1W-AD041-V1/AD081-V1

CJ1W-AD042

CJ1W-DA021/DA041

CJ1W-DA08V/DA08C

CJ1W-DA042V

CJ1W-MAD42

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
04600000 hex	A/D Conversion Error	An error occurred in A/D conversion.	• There is a source of noise nearby. • A/D converter failed.			S	U		CJ-series Analog I/O Units Operation Manual for NJ-series CPU Unit (Cat. No. W490)
04620000 hex	Non-volatile Memory Error	An error occurred in non-volatile memory.	• There is a source of noise nearby. • Non-volatile memory failed.			S			Same as above.
34800000 hex	Mean Value Processing Setting Error	There is a mistake in the setting of the number of samplings for mean value processing.	• There is a mistake in the setting of the number of samplings for mean value processing.			S			Same as above.
34830000 hex	Scaling Data Setting Error	There is a mistake in the scaling data settings.	• The upper or lower limit data for scaling is outside the setting range. Or, the maximum value and minimum value are not 0 and they are the same.			S			Same as above.
34840000 hex	Input Signal Range Setting Error or Error in Number of Inputs Setting	There is a mistake in the input signal range setting or in the number of inputs setting.	• The settings of the input signal range or the setting of the number of analog inputs that are used is incorrect.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
34850000 hex	Mean Value Processing Setting Error	There is a mistake in the setting of the number of samplings for mean value processing.	• There is a mistake in the setting of the number of samplings for mean value processing.			S			CJ-series Analog I/O Units Operation Manual for NJ-series CPU Unit (Cat. No. W490)
34860000 hex	Error in Setting of Conversion Mode	There is a mistake is the Conversion Mode setting.	• The specification of the Cyclic Conversion Mode or Direct Conversion Mode is not correct.			S			Same as above.
34870000 hex	Output Hold Setting Error	There is a mistake in the output hold setting.	• The setting for output status when conversion stops is incorrect.			S			Same as above.
34890000 hex	Conversion Time/Resolution or Operation Mode Setting Error	There is a mistake in the conversion time/resolution or operation mode setting.	• There is a mistake in the conversion time/resolution or operation mode setting.			S			Same as above.
348A0000 hex	Output Signal Range Setting Error or Error In Number of Outputs Used Setting	There is a mistake in the output signal range setting or in the number of outputs setting.	• There is a mistake in the output signal range setting or in the number of outputs setting.			S			Same as above.
38010000 hex	Scaling Data Setting Error/Ratio Conversion Use Setting Error	There is an error in the scaling data setting or ratio conversion use setting.	• The upper or lower limit data for scaling is outside the setting range. Or, the maximum value and minimum value are not 0 and they are the same. • The I/O number for ratio conversion is set to *Not used* in the I/O specifications.			S			Same as above.
38020000 hex	Ratio Set Value Error	There is a mistake is the ratio setting for ratio conversion.	• A value other than 16#0000 to 16#9999 (0.00 to 99.99) was specified for the ratio conversion A constant for ratio conversion.			S			Same as above.
64780000 hex	Input Disconnection Detected	The input is disconnected.	• Input wiring is broken. • Input wiring disconnection			S	U		Same as above.
64790000 hex	Output Set Value Error	The output setting is out of range.	• An output set value setting is out of range.			S	U		Same as above.
34810000 hex	Input Value Exceeded Adjustment Range in Adjustment Mode	In Adjustment Mode, the input value exceeded the range for which adjustment is possible.	• In Adjustment Mode, the input value exceeded the range for which adjustment is possible, so the offset and gain cannot be adjusted.			U	S		Same as above.
34820000 hex	Input Number Specification Error in Adjustment Mode	The input number specified in Adjustment Mode is not enabled or the input number is wrong.	• The input number that was specified in Adjustment Mode is not enabled. • The setting of the Adjustment Input Number (device variable **_AdjCh*) is incorrect, so adjustment is not possible.			U	S		Same as above.
34880000 hex	Output Number Specification Error in Adjustment Mode	The output number specified in Adjustment Mode is not enabled or the output number is wrong.	• The output number that was specified in Adjustment Mode is not enabled. • The setting of the Adjustment Output Number (device variable **_AdjCh*) is incorrect, so adjustment is not possible.			U	S		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
348C0000 hex	I/O Number Specification Error in Adjustment Mode	The I/O numbers specified in Adjustment Mode are not enabled or the I/O numbers are wrong.	• The I/O numbers that were specified in Adjustment Mode are not enabled. • The setting of the Adjustment I/O Number (device variable **_AdjCh*) is incorrect, so adjustment is not possible.			U	S		CJ-series Analog I/O Units Operation Manual for NJ-series CPU Unit (Cat. No. W490)

CJ-series Process I/O Units

The section provides tables of the events that can occur in the following Units.

CJ1W-PDC15

CJ1W-AD04U

CJ1W-PH41U

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
04600000 hex	A/D Conversion Error	An error occurred in A/D conversion.	• There is a source of noise nearby. • A/D converter failed.			S	U		CJ-series Analog I/O Units Operation Manual for NJ-series CPU Unit (Cat. No. W498)
04610000 hex	Cold Junction Sensor Error	An error occurred in the cold junction sensor.	• Faulty connection to the cold junction sensor for the CJ1W-PH41U. • The cold junction sensor failed.			S	U		Same as above.
04620000 hex	Non-volatile Memory Error	An error occurred in non-volatile memory.	• There is a source of noise nearby. • Non-volatile memory failed.			S			Same as above.
348D0000 hex	Data Range Error	A set value is out of range.	• A set value is out of range.			S			Same as above.
647A0000 hex	Input Error	An input error occurred.	• The analog input signal is out of range. • Input wiring is broken. • Input wiring disconnection or loose terminal			S	U		Same as above.
647D0000 hex	Zero/Span Adjustment Period End	The zero/span adjustment period expired.	• The zero/span adjustment period expired.			U	S		Same as above.
647E0000 hex	Zero/Span Adjustment Period Notice	The zero/span adjustment period is close to expiring.	• The notification period for the expiration of zero/span adjustment occurred.			U	S		Same as above.

CJ-series Temperature Control Units

The section provides tables of the events that can occur in the following Units.

CJ1W-TC003

CJ1W-TC004

CJ1W-TC103

CJ1W-TC104

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
04680000 hex	Cold Junction Sensor Error	An error occurred in the cold junction sensor.	• Faulty connection to the cold junction sensor. • The cold junction sensor failed.			U	S		CJ-series Temperature Control Units Operation Manual for NJ-series CPU Unit (Cat. No. W491)
34940000 hex	Setting Error	There is an illegal setting.	• The set value is incorrect.			U	S		Same as above.
64840000 hex	Sensor Error	An error occurred in the sensor input.	• Error in input from the Sensor.			U	S		Same as above.
64850000 hex	CT Overflow	An overflow occurred in the CT input.	• The heater current exceeded 55.0 A.			U	S		Same as above.
64860000 hex	Heater Burnout Alarm	A heater burnout occurred.	• The power supply to the heater is not ON. • The heater is burned out or deteriorated.			U	S		Same as above.

CJ-series ID Sensor Units

The section provides tables of the events that can occur in the following Units.

CJ1W-V680C11

CJ1W-V680C12

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
046C0000 hex	Unit Status, Antenna Power Supply Error	An error occurred in the power supply to the Antenna.	• An error occurred in the power supply (24 V) to the Antenna.			S			CJ-series ID Sensor Units Operation Manual for NJ-series CPU Unit (Cat. No. Z317)
046D0000 hex	Unit Status, Memory Error	An error occurred when reading non-volatile memory.	• There is a source of noise nearby. • Non-volatile memory failure			S			Same as above.
046E0000 hex	Results Information, Antenna Error	An error occurred in the Antenna.	• The Antenna is not connected. • Antenna failure • The ID Sensor Unit failed.			S			Same as above.
046F0000 hex	Unit Status, Unit Busy	An error occurred in an ID Sensor Unit.	• There is a source of noise nearby. • The ID Sensor Unit failed.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
24400000 hex	Unit Status, Antenna Error	An error occurred in the Antenna.	• The setting of the Connected Antenna Setting (device variable **_Ch#_AntConn*) does not agree with the Antenna that is connected. • The V680-H01 or V680-H01-V2 was connected to the CJ1W-V680C12.			S			CJ-series ID Sensor Units Operation Manual for NJ-series CPU Unit (Cat. No. Z317)
34980000 hex	Results Information, Data Storage Area Specification Error	The data storage area specification is not correct.	• The user program specifies addresses in the DM, CIO, AR, EM, or other areas that exceed the ranges defined for the data storage area specifications.			S			Same as above.
54A00000 hex	Results Information, ID Tag Address Error	The address of the ID Tag is wrong.	• The address of an ID Tag specified in a command is incorrect.			S			Same as above.
54A10000 hex	Results Information, Write Protection Error	An attempt was made to write to a write-protected area of the ID Tag.	• The specified address or number of bytes is incorrect. • Write-protection is enabled for the area you attempted to write to in the ID Tag.			S			Same as above.
54A20000 hex	Results Information, Command Error	The command to the ID Sensor Unit is not correct.	• The contents of the following external device variables is not data that can be specified (where # is the channel number). *_Ch#_CmdSet *_Ch#_ProcAdr *_Ch#_ProcByte *_Ch#_CmdOption "#" in the variable name is the Antenna (Head) number.			S			Same as above.
648C0000 hex	Unit Status, Command Error End	A processing error occurred.	• A processing error occurred.			S			Same as above.
648D0000 hex	Results Information, Verification Error	The correct data could not be written to the ID Tag.	• The travel speed of the ID Tag is outside the specified range. • The distance between the Antenna and ID Tag is outside the specified range. • Noise			S			Same as above.
648E0000 hex	Results Information, ID Tag Communications Error	An error occurred in communications with an ID Tag, preventing a normal end.	• The travel speed of the ID Tag is outside the specified range. • The distance between the Antenna and ID Tag is outside the specified range. • Noise			S			Same as above.
648F0000 hex	Results Information, ID Tag Missing Error	There is no ID Tag in the communications area.	• The communications specification is set to trigger, and the ID Tag is not in the communications area when the trigger occurs. • The communications specification is set to single auto or repeat auto, and the wait time reached the Auto Wait Time. • An Amplifier is connected, but an Antenna is not connected.			S			Same as above.
64900000 hex	Results Information, ID System Error 1	ID system error 1 occurred.	• System error 1 occurred.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
6491 0000 hex	Results Information, ID System Error 2	ID system error 2 occurred.	• System error 2 occurred.			S			CJ-series ID Sensor Units Operation Manual for NJ-series CPU Unit (Cat. No. Z317)
6492 0000 hex	Results Information, ID System Error 3	ID system error 3 occurred.	• System error 3 occurred.			S			Same as above.
6493 0000 hex	Results Information, ID Tag Status	One of the following occurred. • The number of writes was exceeded for a Number of Writes Control command. • An overflow or underflow occurred for a Calculation Write command. • The data did not verify for a Data Check command. • An error occurred in the data for a Read with Error Correction command. • An error occurred when writing for a Copy command.	• The number of writes was exceeded for a Number of Writes Control command. • An overflow or underflow occurred for a Calculation Write command. • The data did not verify for a Data Check command. • An error occurred in the data for a Read with Error Correction command. • An error occurred when writing for a Copy command.			S			Same as above.
6494 0000 hex	Results Information, Error Correction	A Write with Error Correction command performed a 1-bit error correction.	• There is ambient noise where the ID Tag is used. • ID Tag error.			S			Same as above.

CJ-series High-speed Counter Units

The section provides tables of the events that can occur in the following Units.

CJ1W-CT021

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
6801 0000 hex	Unit Error	An error occurred in the High-speed Counter Unit.	• There is an error in the Special Unit Setup. • An overflow or underflow error occurred. • An illegal preset value was used. • A CPU Unit monitor error or bus error occurred.			S			CJ-series High-speed Counter Units Operation Manual for NJ-series CPU Unit (Cat. No. W492)

CJ-series Serial Communications Units

The section provides tables of the events that can occur in the following Units.

CJ1W-SCU22

CJ1W-SCU32

CJ1W-SCU42

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
04740000 hex	Error Log Data Error	An error occurred in the error log data.	• There is a source of noise nearby. • Non-volatile memory failure			S			CJ-series Serial Communications Units Operation Manual for NJ-series CPU Unit (Cat. No. W494)
14800000 hex	Protocol Data Error	A protocol data checksum error has occurred.	• The communications connector with the CX-Protocol was disconnected or the power supply to the Controller was interrupted during transfer of the protocol data from the CX-Protocol. • The Serial Communications Unit failed.			S			Same as above.
34A40000 hex	System Setup Error	There is an error in the system settings for the Serial Communications Unit.	• There is an error in the system settings for the Serial Communications Unit.			S			Same as above.
04750000 hex	DTR Check Error	An error was found during the DTR check.	• Loopback test jig failure. • Noise • The communications circuits in the Serial Communications Unit are faulty.				S		Same as above.
04760000 hex	CTS Check Error	An error was found during the CTS check.	• Loopback test jig failure. • Noise • The communications circuits in the Serial Communications Unit are faulty.				S		Same as above.
54A80000 hex	Command Error	A command error occurred.	• The constant in the expected receive message that is set in the protocol macro is different from the constant in the message that was received.				S		Same as above.
54A90000 hex	Sequence Abort Completed	The sequence was ended by an Abort setting for the next processing or error processing.	• The protocol macro data is not set correctly. The baud rate, frame format, or other system setting does not agree with the remote node.				S		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	

54AA0000 hex	Protocol Macro Error	An error occurred in the protocol macro.	• Sequence No. Error: An unregistered number was specified for *SeqNo* (communications sequence number) of the ExecPMCR instruction (no indicators light).
			• Data read/write area exceeded error: The specified area range was exceeded when data was written to or read from the CPU Unit. (The ERC indicator and ERR/ALM indicator will flash.)
			• Protocol data syntax error: There was a code that cannot be executed during protocol execution. (The ERC indicator and ERR/ALM indicator will flash.)
			  • The total of the areas specified for link words O1, O2, I1, and I2 exceeded 500 words.
			  • The same link word is used by both ports 1 and 2.
			  • Writing was specified with a constant.
			  • Interrupt notification was specified for a Serial Communications Unit.
			  • Thirty one or more items were set for the write attribute data for one message.
			  • A length of 0 bytes was specified for a message that was sent or received.
			  • The length of a message to be sent or received exceeds the maximum send/receive bytes.
			  • A message is not registered for matrix reception.
			  • The transmission control is set to both RTS/CTS flow control and Xon/Xoff flow control.
							S		CJ-series Serial Communications Units Operation Manual for NJ-series CPU Unit (Cat. No. W494)

64A00000 hex	Tfs (Send Finished Monitoring Time) Exceeded	The time required to complete a send operation exceeded the Send Finished Monitoring Time.	• Noise • The monitor time is shorter than the actual completion time.				S		Same as above.
64A10000 hex	Tfr (Receive Finished Monitoring Time) Exceeded	The time required to complete a reception operation exceeded the Receive Finished Monitoring Time.	• Noise • The monitoring time is shorter than the actual completion time.				S		Same as above.
64A20000 hex	Tr (Receive Wait Monitoring Time) Exceeded	The receive waiting time exceeded the Receive Wait Monitoring Time.	• Noise • The monitoring time is shorter than the actual completion time.				S		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
64A30000 hex	FCS Check Error	One of the following errors occurred in the converted protocol at the serial gateway. • When converting to CompoWay/F command: BCC error • When converting to Modbus-RTU command: CRC error • When converting to Modbus-ASCII command: CRC error • When converting to Host Link FINS command: FCS error Protocol Macros • The check code attached to the received message does not match the check code that was calculated from the received message.	• Noise • There was a mistake in the CRC code that was attached to the command frame.				S		CJ-series Serial Communications Units Operation Manual for NJ-series CPU Unit (Cat. No. W494)
64A40000 hex	Timeout Error	A timeout error occurred.	• The steps in the communications sequence of a protocol macro are not progressing. • There is no remote device to receive the command. • The command frame is incorrect. • The remote device is not using the same serial communications settings. • Wiring is not correct or terminating resistance is not set correctly. • The remote device could not interpret the protocol command. • The response from the remote device was sent too soon. • The response timeout monitoring time of the serial gateway is too short. • The loopback test jig failed. • The communications circuits in the Serial Communications Unit are faulty. • A serial gateway interrupted processing between protocol macro steps. • Noise occurred. • The Serial Communications Mode setting is incorrect.				S		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
64A50000 hex	Comparison Error	A comparison error occurred.	• Loopback test jig failure. • Noise • The communications circuits in the Serial Communications Unit are faulty.				S		CJ-series Serial Communications Units Operation Manual for NJ-series CPU Unit (Cat. No. W494)
64A60000 hex	Reception Overflow	More than the specified amount of receive data was received in No-protocol Mode.	• One or more bytes of data was received after the completion the reception.				S		Same as above.
64A70000 hex	Command Format Error	An illegal function code or address was specified in a received Modbus-RTU command.	• An illegal function code, address, or data was specified in a received Modbus-RTU command.				S		Same as above.

84680000 hex	Transmission Error	A transmission error occurred.	• One of the following errors occurred.
			  • Tfs (Send Finished Monitoring Time) Exceeded
			  • Tfr (Receive Finished Monitoring Time) Exceeded
			  • Tr (Receive Wait Monitoring Time) Exceeded
			  • FCS Check Error
			  • Command Error
			  • Timeout Error
			  • Overrun Error
			  • Framing Error
			  • Parity Error
							S		Same as above.

84690000 hex	Overrun Error	An overrun occurred.	• In Serial Gateway Mode or Protocol Macro Mode:
			  • The reception circuits in the Serial Communications Unit are faulty.
			  • A transmission error occurred due to noise or other factors.
			• No-protocol Mode:
			  • The reception buffer received more than 259 bytes of data before the SerialRcv/SerialRcvNoClear instruction was executed.
			• During Loopback Test
			  • Loopback test jig failure.
			  • Noise
			  • The communications circuits in the Serial Communications Unit are faulty.
							S		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	

846A 0000 hex	Framing Error	A frame error occurred.	• In Serial Gateway Mode or Protocol Macro Mode:
			  • The reception circuits in the Serial Communications Unit are faulty.
			  • A transmission error occurred due to noise or other factors.
			• During Loopback Test
			  • Loopback test jig failure.
			  • Noise
			  • The communications circuits in the Serial Communications Unit are faulty.
							S		CJ-series Serial Communications Units Operation Manual for NJ-series CPU Unit (Cat. No. W494)

846B 0000 hex	Parity Error	A parity error occurred.	• In Serial Gateway Mode or Protocol Macro Mode:
			  • The reception circuits in the Serial Communications Unit are faulty.
			  • A transmission error occurred due to noise or other factors.
			• During Loopback Test
			  • Loopback test jig failure.
			  • Noise
			  • The communications circuits in the Serial Communications Unit are faulty.
							S		Same as above.

846C 0000 hex	Overrun Error, Framing Error, or Parity Error (Transmission Error)	An overrun error, framing error, or parity error occurred.	• The communications conditions and baud rate settings do not match the host. • Noise or other external interference. • The baud rate is outside the allowable range or there are bit errors due to different stop bit settings or other parameters. • The communications cable wiring is faulty. • Terminating resistance is not set correctly for the RS-422A/485 ports. • Wiring is faulty or terminating resistance is not set correctly on an NT-AL001 or other Adapter.				S		Same as above.
846D 0000 hex	Transmission Error (CRC Error)	A CRC error occurred.	• Noise • CRC calculation method does not match the device.				S		Same as above.

CJ-series DeviceNet Units

The section provides tables of the events that can occur in the following Units.

CJ1W-DRM21

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
04880000 hex	Unit Memory Error	An error occurred when writing to internal memory where the error history is saved.	• There is a source of noise nearby. • Non-volatile memory failure			S	U		CJ-series DeviceNet Units Operation Manual for NJ-series CPU Unit (Cat. No. W497)
04890000 hex	Network Power Error	Network power is not being supplied.	• Communications power is not being supplied normally from the network.			S			Same as above.
148D0000 hex	Invalid Scan List Data	There is an error in the contents of the slave scan list or master scan list stored in non-volatile memory.	• The power was interrupted during writing the scan list to the non-volatile memory.			S			Same as above.
148E0000 hex	Invalid Setup Data	There is illegal data in the settings for the slave function.	• The power was interrupted while the system was writing the parameters. • Non-volatile memory life			S			Same as above.
24480000 hex	Node Address Duplicated Error	An error was discovered during the node address duplication check when starting the DeviceNet Unit.	• The node address of the DeviceNet Unit is also set for another node.			S			Same as above.
34BC0000 hex	Routing Table Error	There is illegal data in the routing tables set in the CPU Unit.	• The local DeviceNet Unit is not in the routing tables. • The routing table format is incorrect. • Reading the routing tables timed out.			S	U		Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
34BD0000 hex	Verification Error	The slave information registered in the scan list does not agree with the actual slave information.	• A slave that is in the scan list does not exist. • The node address of the local Unit, which is the master, is registered in the scan list. • If the system is set to check the vendor in the detailed verification settings, the vendor of the slave does not match the registration in the scan list. • If the connection path is set in the detailed verification settings, then setting the connection path that is set in the scan list failed. • The size of the slave I/O data does not match the registration in the scan list. • If the device type is set in the detailed verification settings, then setting the device type that is set in the scan list failed. • If the product code is set in the detailed verification settings, then setting the product code that is set in the scan list failed. • The device does not support the I/O service specified in the scan list.			S			CJ-series DeviceNet Units Operation Manual for NJ-series CPU Unit (Cat. No. W497)
34BE0000 hex	Structure Error	The scan list is disabled and an error occurred that prevented making I/O allocations.	• The I/O words allocated to slave overlap. • The I/O words allocated to the slave exceed the valid range. • The I/O size of the slave exceeds 200 bytes for outputs or 200 bytes for inputs.			S			Same as above.
34BF0000 hex	Master I/O Refresh Error	The I/O memory in the destination CPU Unit for I/O refreshing could not be found when refreshing the master function data in the CPU Unit.	• I/O words are allocated in an EM bank that does not exist.			S			Same as above.
34C00000 hex	Master User-set Allocations User Setting Failed	An error occurred in the following operation for user allocation of the master.	• The master function is not enabled. • There is a mistake in the user allocations in the master. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.
34C10000 hex	Communications Cycle Time Setting Failed	An error occurred in one of the following operations when setting the communications cycle time.	• There is an error in the set information. • CPU Unit is not in PROGRAM mode.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
34C2 0000 hex	Slave I/O Refresh Error	The I/O memory in the destination CPU Unit for I/O refreshing could not be found when refreshing the slave function data in the CPU Unit.	• I/O words are allocated in an EM bank that does not exist.			S			CJ-series DeviceNet Units Operation Manual for NJ-series CPU Unit (Cat. No. W497)
34C3 0000 hex	Slave User Allocation Area Setting Failed	An error occurred in the following operation for user allocation of the slave.	• The slave function is not disabled. • There is a mistake in the user allocations to a slave. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.
64AC 0000 hex	Send Timeout Error	A send timeout occurred.	• There is no slave or other device on the network. • The same baud rate is not set for all nodes. • Communications cable lengths (trunk line and branch lines) are unsuitable. • A communications cable is disconnected or loose. • The terminating resistance is somewhere other than the ends of the trunk line. • Noise • There is an error in the CAN controller.			S			Same as above.
7460 0000 hex	Master Function Enable/Disable Failed	An operating error occurred when enabling or disabling the master function.	• An attempt was made to enable the master function when it was already enabled. • An attempt was made to disable the master function when it was already disabled. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.
7461 0000 hex	Master Fixed Allocation Area Setting Failed	An error occurred in one of the following operations for fixed allocation of the master.	• The master function is not enabled. • The scan list is not disabled. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	

74620000 hex	Scan List Register/Clear Failed	An operating error occurred when registering or clearing the scan list by performing one of the following operations.	• CPU Unit is not in PROGRAM mode.
			• Request processing is not possible in this status or the request was made when the operation was already in progress. The following are the main causes of Unit status errors.
			  • A software switch operation for the master function was executed when the master function was disabled.
			  • A switch that can be used only when the scan list is disabled was used when the scan list was enabled.
			  • A switch that can be used only when the scan list is enables was used when the scan list was disabled.
			  • A software switch operation for the slave function was executed when the slave function was disabled.
			• A configuration error has occurred.
			• There is an error in the parameters specified in the user settings, and the requested setting could not be made.
			• More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.
						S			CJ-series DeviceNet Units Operation Manual for NJ-series CPU Unit (Cat. No. W497)

74630000 hex	Slave Function Enable/Disable Failed	An error occurred in one of the following operations in the slave function.	• An attempt was made to enable the slave function when it was already enabled. • An attempt was made to disable the slave function when it was already disabled. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.
74640000 hex	Slave Fixed Allocation Area Setting Failed	An error occurred in one of the following operations for fixed allocation of the slave.	• The slave function is not disabled. • CPU Unit is not in PROGRAM mode. • More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
84740000 hex	Bus Off Detected	A Bus Off error occurred (i.e., communications stopped because there were too many communications errors).	• The master and slave have different baud rates. • Communications cable lengths (trunk line and branch lines) are unsuitable. • A communications cable is disconnected or loose. • The terminating resistance is somewhere other than the ends of the trunk line. • Noise			S			CJ-series DeviceNet Units Operation Manual for NJ-series CPU Unit (Cat. No. W497)
84750000 hex	Remote I/O Communications Error	A timeout occurred in remote I/O communications.	• The master and slaves have different baud rates. • Communications cable lengths (trunk line and branch lines) are unsuitable. • A communications cable is disconnected or loose. • The terminating resistance is somewhere other than the ends of the trunk line. • Noise			S	U		Same as above.
84760000 hex	Remote I/O Communications Error (during Slave Operation)	An error occurred in remote I/O communications.	• The master is not in operation. • The master and slaves have different baud rates. • Communications cable lengths (trunk line and branch lines) are unsuitable. • A communications cable is disconnected or loose. • The terminating resistance is somewhere other than the ends of the trunk line. • Noise			S			Same as above.
84770000 hex	Slave COS Send Failed	An attempt was made to send COS data to the master using the Slave COS Send Switch (software switch 2, device variable **_Sw2SlavCOSSendCmd*), but the send failed.	• A COS connection to the master is not open. • A Bus Off state occurred. • A network power error occurred. • A send timeout occurred.			S			Same as above.
048A0000 hex	File Read/Write Error	An error occurred when user setup data was read from an SD Memory Card in the CPU Unit or when data was written as a file to an SD Memory Card.	• The available capacity on the SD Memory Card was insufficient to write a file. • Write-protection is set on the SD Memory Card when you write to a file. • Noise • The SD Memory Card is damaged. • The CPU Unit has failed.			U	S		Same as above.
148C0000 hex	Invalid Message Timer List Error	The data in the message monitoring timer list is not correct.	• The power supply was interrupted while writing the message-monitoring timer list to the non-volatile memory.			U	S		Same as above.

CJ-series EtherNet/IP Unit

The following table lists the events that can occur for an EtherNet/IP Unit with the following model number.

CJ1W-EIP21

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
047A0000 hex	Unit Memory Error (Device Error)	An error occurred when writing to the error history or device parameters in non-volatile memory in the EtherNet/IP Unit.	• There is a source of noise nearby. • Non-volatile memory failure			S			CJ-series EtherNet/IP Units Operation Manual for NJ-series CPU Unit (Cat. No. W495)
047B0000 hex	Non-volatile Memory Error	An error occurred in non-volatile memory.	• There is a source of noise nearby. • Non-volatile memory failure			S			Same as above.
047C0000 hex	Communications Controller Error	An error occurred in the communications controller.	• Noise • Communications Controller hardware error			S			Same as above.
14840000 hex	Invalid Communications Parameter	An error was found in the validation check of the parameters for tag data links that are saved in non-volatile memory.	• The power was interrupted during a download. • A communications error occurred during a download. • Non-volatile memory failure			S			Same as above.
14850000 hex	Tag Database Error	A tag database error occurred in the CPU Unit when using variables for tag data links, status layout, etc.	• The power was interrupted during a download. • A communications error occurred during a download.			S			Same as above.
34A80000 hex	Verification Error	The information registered for a target node in the tag data link parameters is different from the actual node information.	• The specified target does not exist. • Variable names do not match. • The connection size is incorrect. • Insufficient connection resources			S			Same as above.
34A90000 hex	Tag Data Link Error	There were two or more errors in a connection as an originator. The following are excluded. • Connections as a target • Connection timeouts due to a Link OFF Error with the Ethernet switch	• The power supply to the target node is OFF. • Communications with the target node stop. • The Ethernet cable for EtherNet/IP is disconnected. • The Ethernet cable for EtherNet/IP is disconnected. • Noise			S			Same as above.
34AA0000 hex	Tag Refresh Error	An unsupported data area or address range is specified for the tag data links.	• An unsupported data area or address range was specified for the tag data links.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
34AB0000 hex	Basic Ethernet Setting Error	There is an illegal TCP/IP setting.	• The power was interrupted during a download. • A communications error occurred during a download.			S			CJ-series EtherNet/IP Units Operation Manual for NJ-series CPU Unit (Cat. No. W495)
34AC0000 hex	IP Address Table Error	The IP address table information is incorrect.	• The power was interrupted during a download. • A communications error occurred during a download.			S			Same as above.
34AD0000 hex	IP Router Table Error	The IP router table information is incorrect.	• The power was interrupted during a download. • A communications error occurred during a download.			S			Same as above.
34AE0000 hex	Routing Table Error	The routing table information is incorrect.	• The power was interrupted during a download. • A communications error occurred during a download.			S			Same as above.
34AF0000 hex	Ethernet Advanced Setting Error	There is an illegal FINS setting.	• The power was interrupted during a download. • A communications error occurred during a download.			S			Same as above.
34B00000 hex	Address Mismatch	The host ID of the local IP address is inconsistent with the FINS node address. Or, the last segment of the local IP address is inconsistent with the setting on the node address switches.	• The IP address conversion method is set to automatic generation, but the host ID of the local IP address is inconsistent with the FINS node address or the last segment of the local IP address is inconsistent with the setting on the node address switch.			S			Same as above.
381C0000 hex	Status Area Layout Setting Error	An error occurred in the layout setting of the EtherNet/IP Unit.	• There is an error in the layout settings of the EtherNet/IP Unit.			S			Same as above.
54AE0000 hex	Multiple Switches ON Error	More than one software switch changed to TRUE at the same time.	• More than one software switch changed to TRUE at the same time. Or, another software switch changed to TRUE before processing was completed for a previous software switch.			S	U		Same as above.
84E00000 hex	IP Address Duplication Error	The same IP address is used more than once.	• The IP address of the EtherNet/IP port is also used as the IP address of another node.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
84E1 0000 hex	BOOTP Server Error	Connection with the BOOTP server failed.	• Server setting error (The acquired IP address is illegal.) • Server is down. • An error occurred in the communications path.			S			CJ-series EtherNet/IP Units Operation Manual for NJ-series CPU Unit (Cat. No. W495)
54AF 0000 hex	Access Detected Outside Range of Variable	Accessing a value that is out of range was detected for a tag variable that is used in a tag data link.	• An out-of-range value was written by an EtherNet/IP tag data link for a variable with a specified range. A value that does not specify an enumerator was written by an EtherNet/IP tag data link for an enumeration variable.				S		Same as above.
84E2 0000 hex	Link OFF Error	The Ethernet link status turned OFF.	• The Ethernet cable is disconnected. • An Ethernet cable is disconnected or loose. • The switching hub power supply is turned OFF. • Baud rate mismatch. • Noise			U	S		Same as above.

CJ-series CompoNet Master Unit

The section provides a table of the events that can occur in the following Unit.

CJ1W-CRM21

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
349C 0000 hex	Registration Table Verification Error	An inconsistency was found when verifying the slave registration table.	• There is at least one entry in the slave registration table where the node address and Slave Unit model are inconsistent.			S			CJ-series CompoNet Master Units Operation Manual for NJ-series CPU Unit (Cat. No. W493)
349D 0000 hex	Slave Unit Duplicated Address Error	The same address is used by more than one Slave Unit or the same word has been allocated to more than one Slave Unit.	• The same node address is set for more than one Slave Unit. • There are no duplicated node addresses set for the Slave Units, but allocated words overlap. • A Slave Unit was disconnected from the network, and then another Slave Unit with the same node address but a different I/O capacity joined the network.			S			Same as above.
349E 0000 hex	Repeater Unit Node Duplicated Address Error	The node address of the Repeater Unit is also set for another node.	• The node address of the Repeater Unit is also used for anther node.			S			Same as above.

Event code	Event name	Meaning	Assumed cause	Level					Reference
				Maj	Prt	Min	Obs	Info	
84600000 hex	Communications Error	A Slave Unit was disconnected from the network.	• Cable lengths (trunk line and branch lines) are unsuitable. • A cable is disconnected or loose. • A terminating resistance is not connected. Or, the terminating resistance is somewhere other than the end of the trunk line. • Noise • The Slave Unit does not respond to communications from the Master Unit because the Slave Unit is faulty, the line is disconnected, or the communications power supply is interrupted.			S	U		CJ-series CompoNet Master Units Operation Manual for NJ-series CPU Unit (Cat. No. W493)
84610000 hex	Repeater Unit Communications Error	An error occurred in Repeater Unit communications.	• Cable lengths (trunk line and branch lines) are unsuitable. • A cable is disconnected or loose. • A terminating resistance is not connected. Or, the terminating resistance is somewhere other than the end of the trunk line. • Noise • The Repeater Unit does not respond to communications from the Master Unit because the Repeater Unit is faulty, the line is disconnected, or the communications power is interrupted.			S	U		Same as above.
64980000 hex	Representative Warning	A warning has occurred in at least one Slave Unit.	• A warning has occurred in at least one Slave Unit.				S		Same as above.
64990000 hex	Representative Alarm	An alarm has occurred in at least one Slave Unit.	• An alarm has occurred in at least one Slave Unit.				S		Same as above.